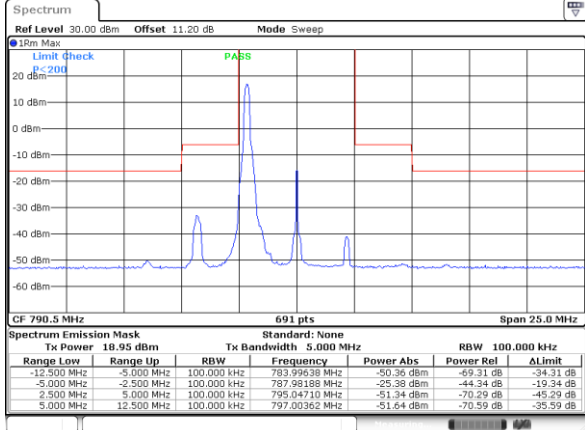


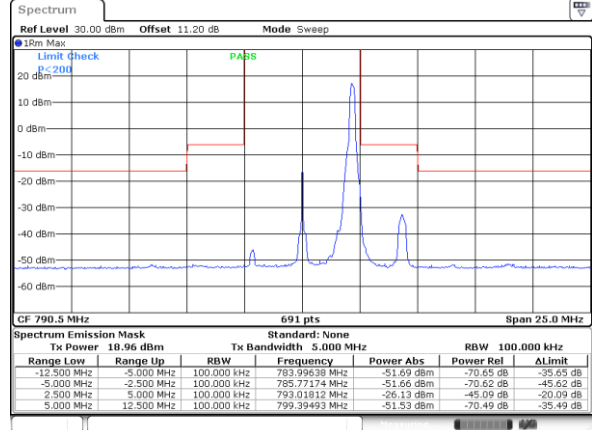


LTE Band 14 / 5MHz / 256QAM

Lowest Channel / 1RB

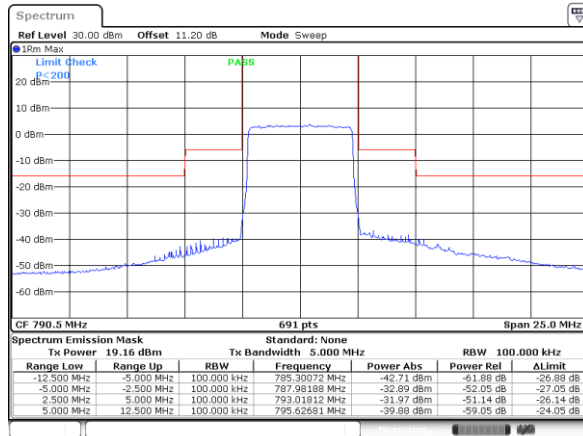


Date: 19.AUG.2020 11:20:59



Date: 19.AUG.2020 11:22:58

Lowest Channel / Full RB

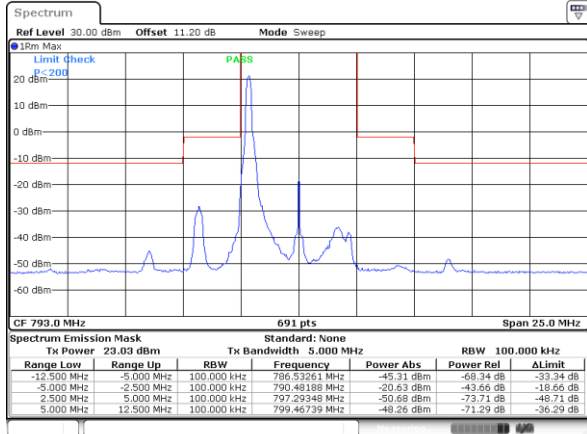


Date: 19.AUG.2020 11:20:00

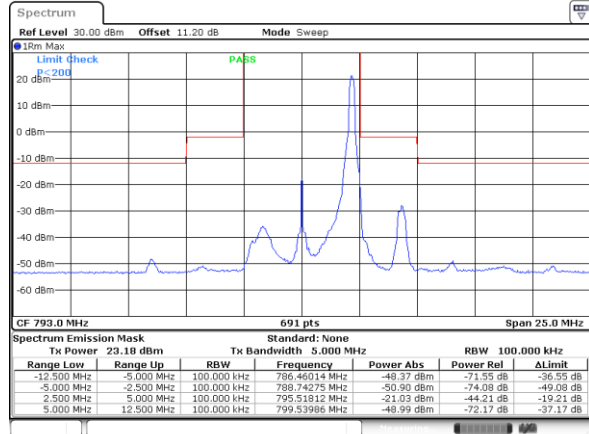


LTE Band 14 / 5MHz / QPSK

Middle Channel / 1RB

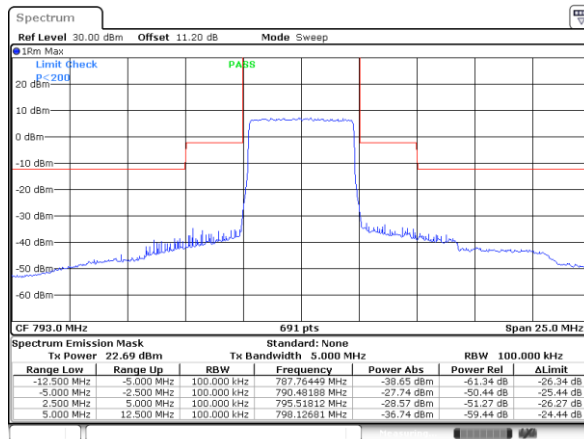


Date: 18.AUG.2020 15:13:16



Date: 18.AUG.2020 15:12:47

Middle Channel / Full RB

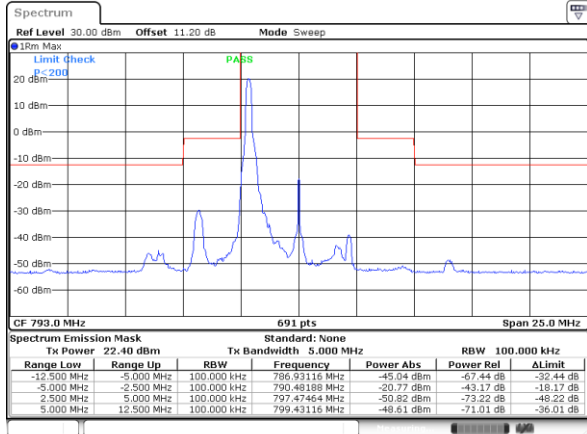


Date: 18.AUG.2020 15:15:41

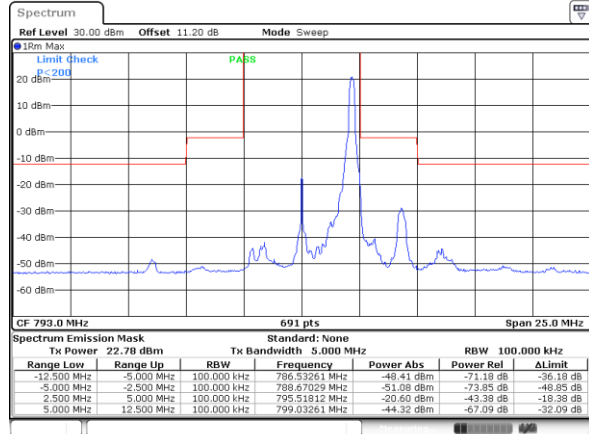


LTE Band 14 / 5MHz / 16QAM

Middle Channel / 1RB

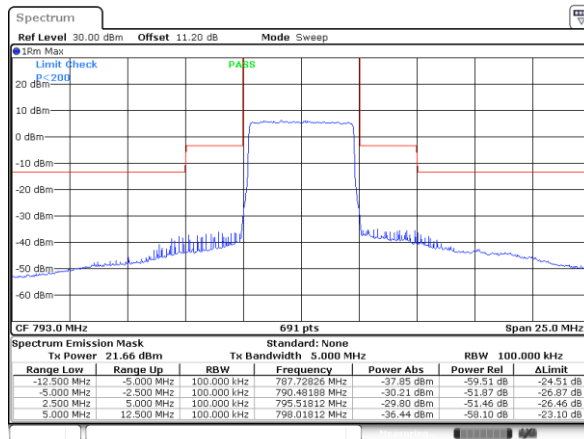


Date: 18.AUG.2020 15:13:44



Date: 18.AUG.2020 15:11:18

Middle Channel / Full RB

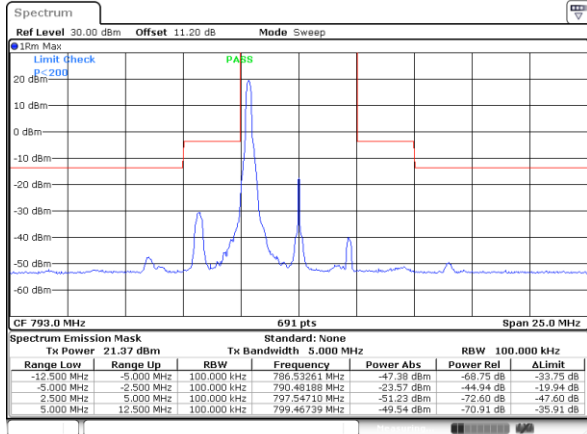


Date: 18.AUG.2020 15:15:11

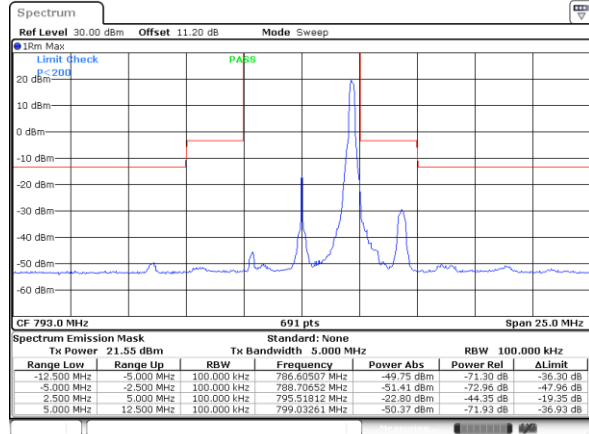


LTE Band 14 / 5MHz / 64QAM

Middle Channel / 1RB

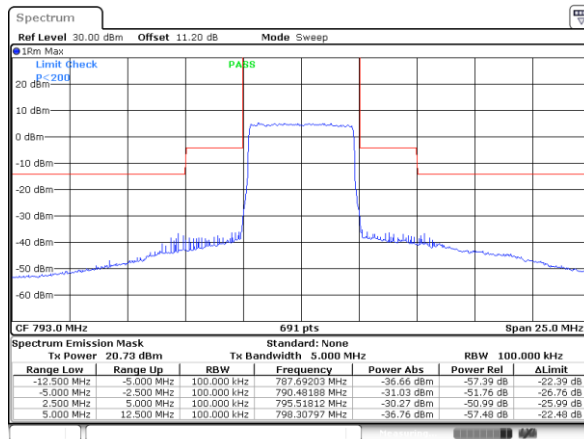


Date: 18.AUG.2020 15:14:13



Date: 18.AUG.2020 15:11:49

Middle Channel / Full RB

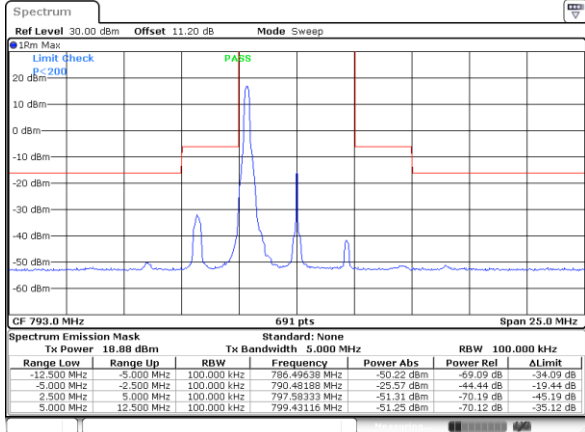


Date: 18.AUG.2020 15:14:42

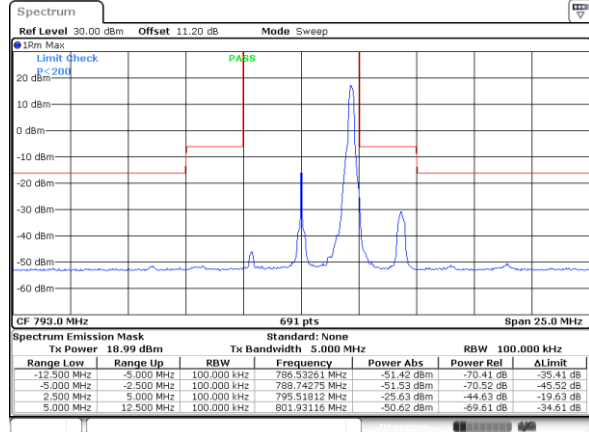


LTE Band 14 / 5MHz / 256QAM

Middle Channel / 1RB

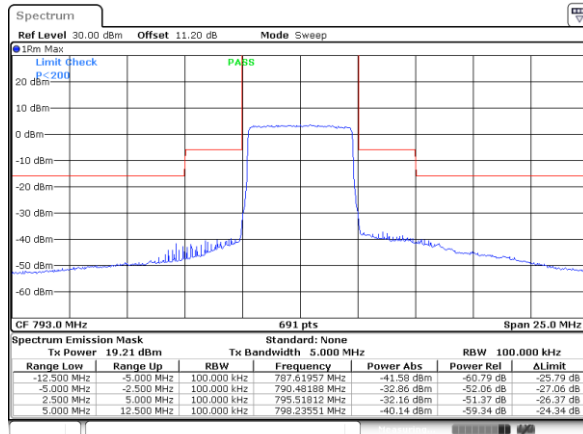


Date: 19.AUG.2020 11:25:04



Date: 19.AUG.2020 11:23:58

Middle Channel / Full RB

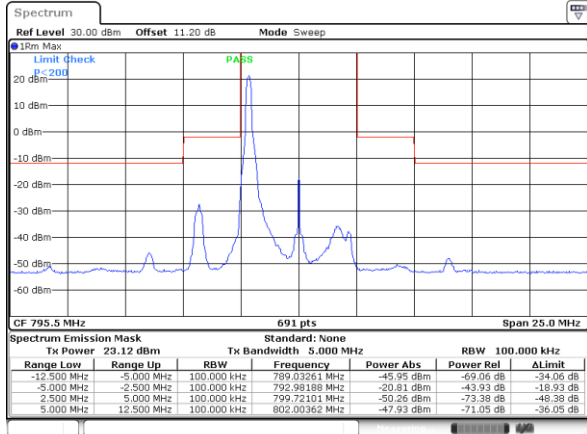


Date: 19.AUG.2020 11:25:40

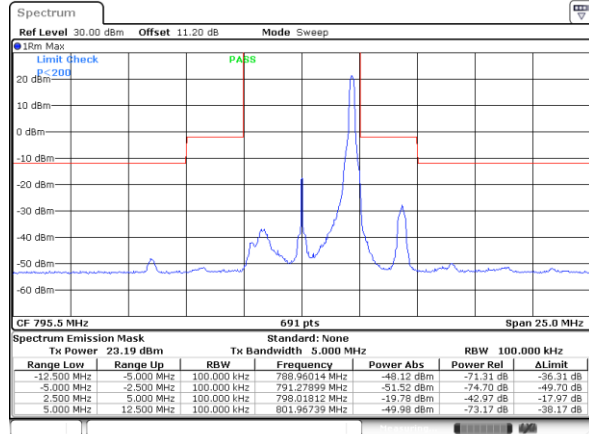


LTE Band 14 / 5MHz / QPSK

Highest Channel / 1RB

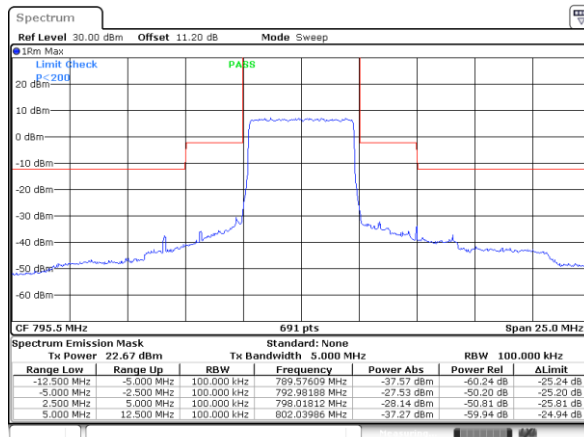


Date: 18.AUG.2020 15:18:37



Date: 18.AUG.2020 15:19:06

Highest Channel / Full RB

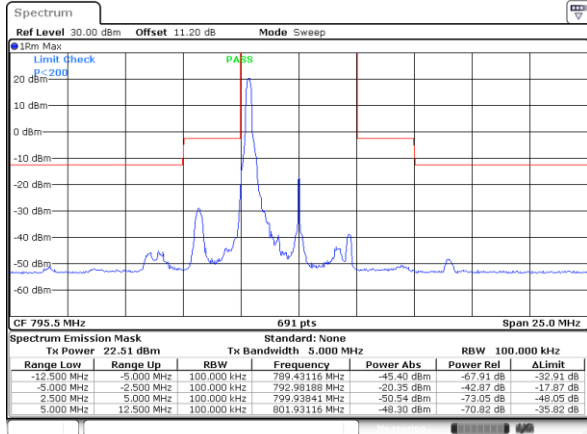


Date: 18.AUG.2020 15:16:10

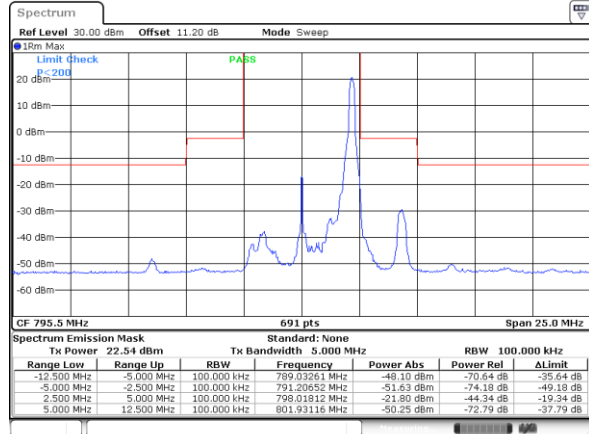


LTE Band 14 / 5MHz / 16QAM

Highest Channel / 1RB

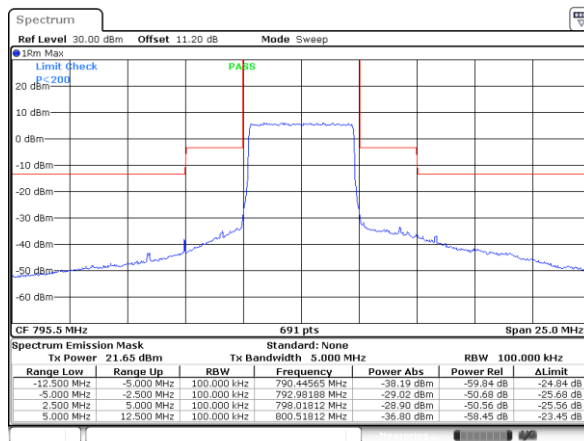


Date: 18.AUG.2020 15:18:07



Date: 18.AUG.2020 15:19:36

Highest Channel / Full RB

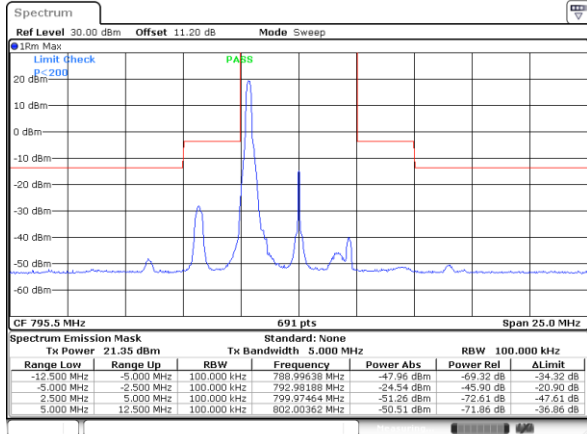


Date: 18.AUG.2020 15:16:39

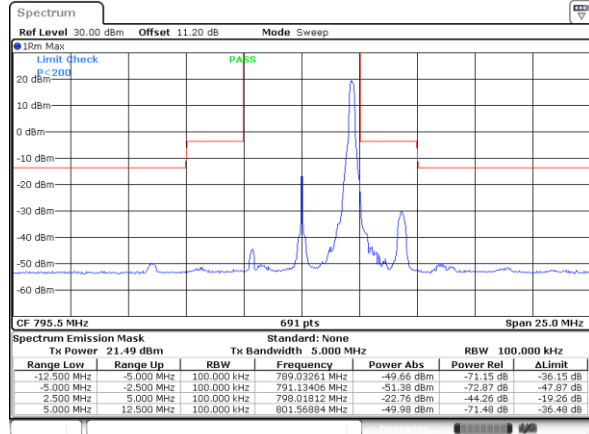


LTE Band 14 / 5MHz / 64QAM

Highest Channel / 1RB

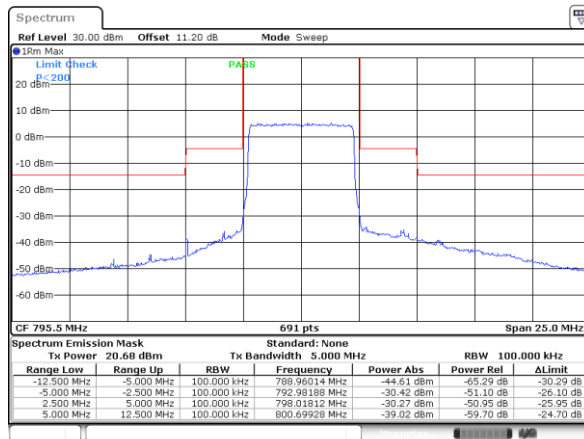


Date: 18.AUG.2020 15:17:38



Date: 18.AUG.2020 15:12:05

Highest Channel / Full RB



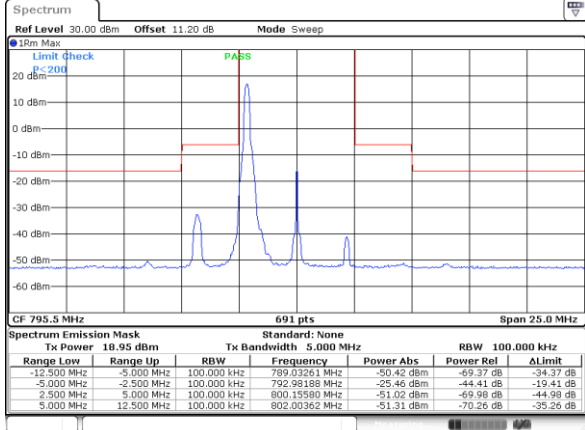
Date: 18.AUG.2020 15:17:08



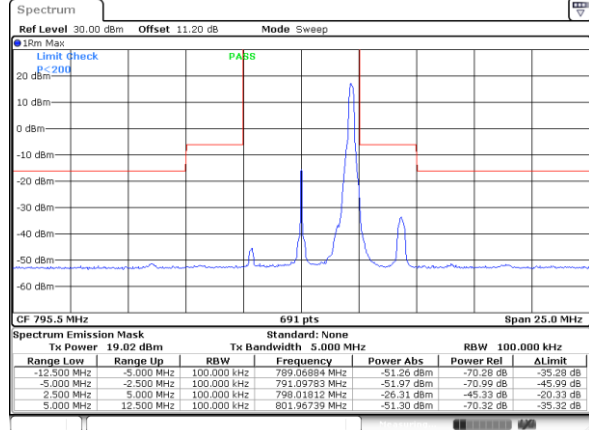


LTE Band 14 / 5MHz / 256QAM

Highest Channel / 1RB

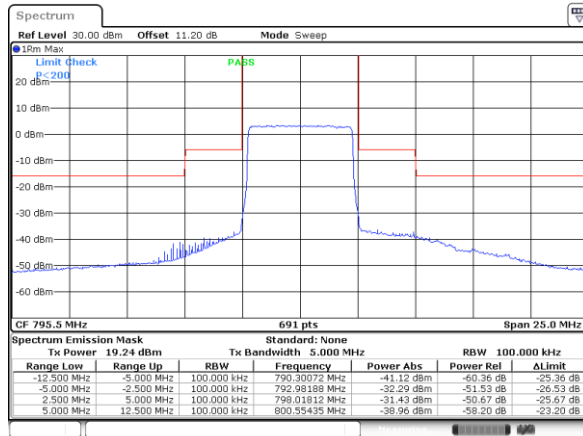


Date: 19.AUG.2020 11:29:33



Date: 19.AUG.2020 11:31:13

Highest Channel / Full RB

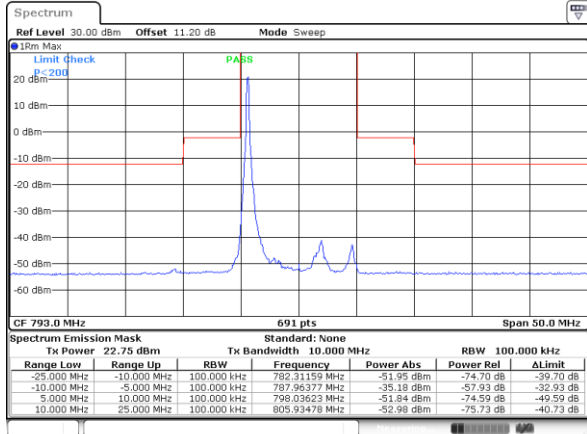


Date: 19.AUG.2020 11:27:06

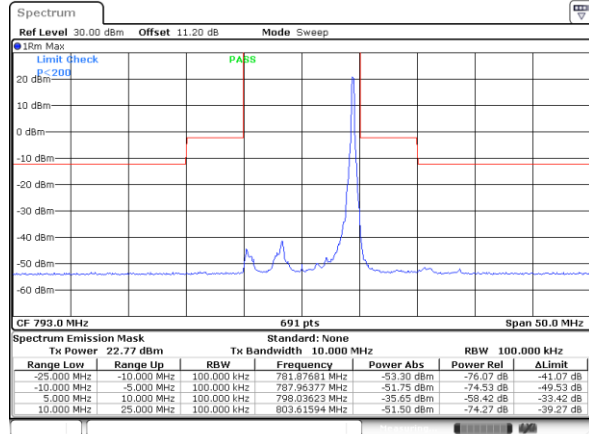


LTE Band 14 / 10MHz / QPSK

Middle Channel / 1RB

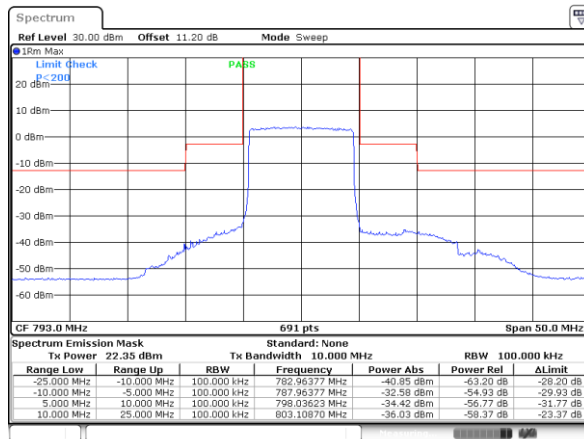


Date: 18.AUG.2020 15:22:01



Date: 18.AUG.2020 15:21:32

Middle Channel / Full RB

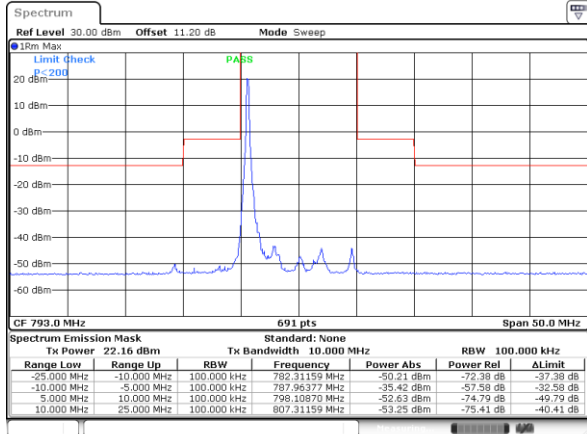


Date: 18.AUG.2020 15:24:26

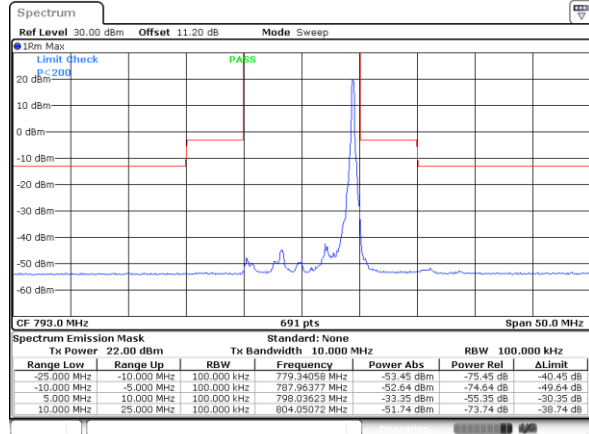


LTE Band 14 / 10MHz / 16QAM

Middle Channel / 1RB

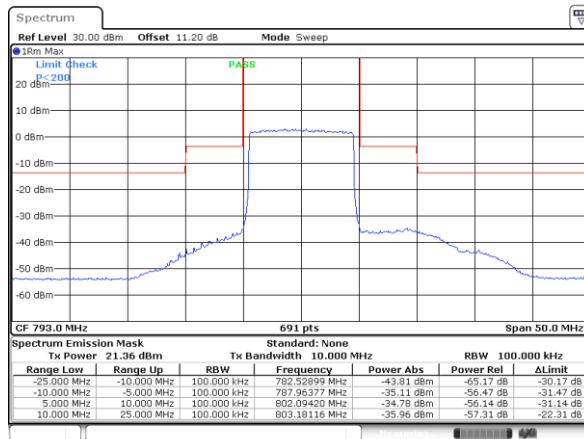


Date: 18.AUG.2020 15:22:30



Date: 18.AUG.2020 15:21:03

Middle Channel / Full RB

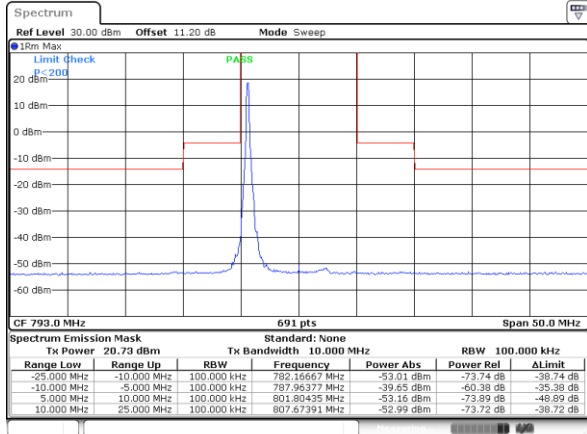


Date: 18.AUG.2020 15:23:57

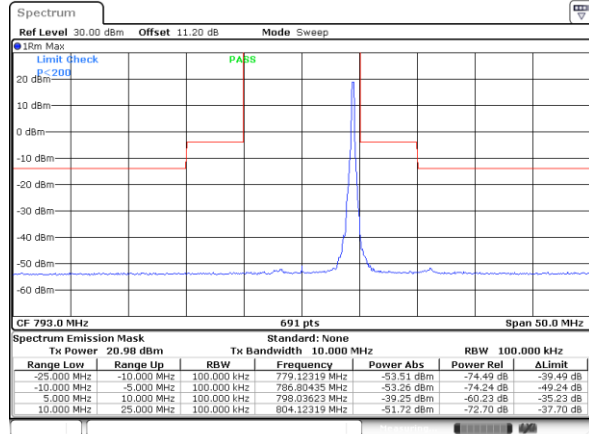


LTE Band 14 / 10MHz / 64QAM

Middle Channel / 1RB

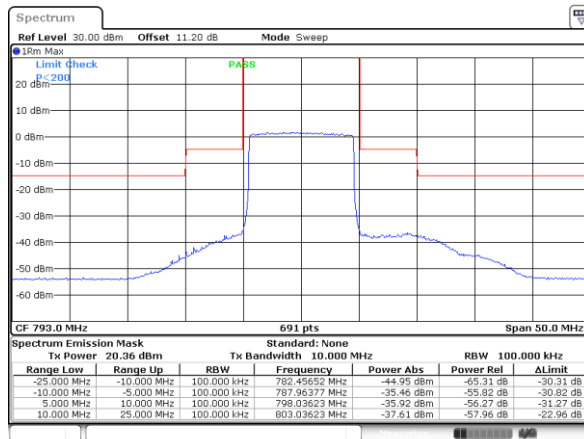


Date: 18.AUG.2020 15:22:59



Date: 18.AUG.2020 15:20:35

Middle Channel / Full RB

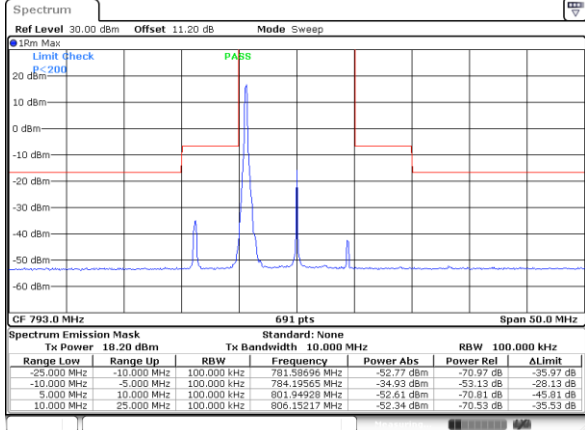


Date: 18.AUG.2020 15:23:28

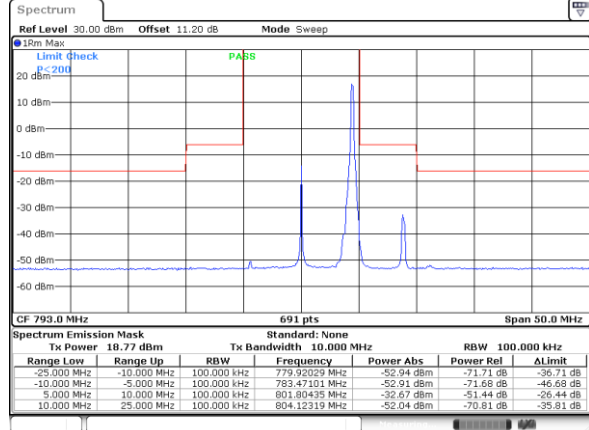


LTE Band 14 / 10MHz / 256QAM

Middle Channel / 1RB

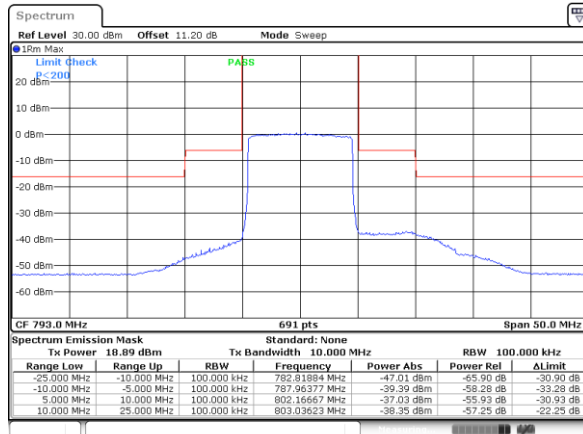


Date: 19.AUG.2020 11:56:37



Date: 19.AUG.2020 11:58:43

Middle Channel / Full RB



Date: 19.AUG.2020 11:33:53



Frequency Stability

Test Conditions		LTE Band 14 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0052	PASS
40	Normal Voltage	0.0048	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0110	
0	Normal Voltage	0.0014	
-10	Normal Voltage	0.0015	
-20	Normal Voltage	0.0166	
-30	Normal Voltage	0.0164	
20	Maximum Voltage	0.0023	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0043	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.3 V. ; Maximum Voltage =4.25 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



## Appendix B. Test Results of ERP and Radiated Test

### ERP

LTE Band 14 / 5MHz (Average) (GT - LC = 0.2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	24	23.79	0.2393	21.84	0.1528
Middle		1	24	23.80	0.2399	21.85	0.1531
Highest		1	24	23.78	0.2388	21.83	0.1524
Lowest	16QAM	1	12	22.92	0.1959	20.97	0.1250
Middle		1	12	22.91	0.1954	20.96	0.1247
Highest		1	12	22.98	0.1986	21.03	0.1268
Lowest	64QAM	1	12	21.91	0.1552	19.96	0.0991
Middle		1	12	21.97	0.1574	20.02	0.1005
Highest		1	12	21.94	0.1563	19.99	0.0998
Lowest	256QAM	1	12	18.61	0.0726	16.66	0.0463
Middle		1	12	18.67	0.0736	16.72	0.0470
Highest		1	12	18.58	0.0721	16.63	0.0460
Limit	ERP < 3W			Result		PASS	

LTE Band 14 / 10MHz (Average) (GT - LC = 0.2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	-	-	-	-	-	-
Middle		1	0	23.80	0.2399	21.85	0.1531
Highest		-	-	-	-	-	-
Lowest	16QAM	-	-	-	-	-	-
Middle		1	49	23.00	0.1995	21.05	0.1274
Highest		-	-	-	-	-	-
Lowest	64QAM	-	-	-	-	-	-
Middle		1	25	21.99	0.1581	20.04	0.1009
Highest		-	-	-	-	-	-
Lowest	256QAM	-	-	-	-	-	-
Middle		1	25	18.72	0.0745	16.77	0.0475
Highest		-	-	-	-	-	-
Limit	ERP < 3W			Result		PASS	



**Radiated Spurious Emission**

**LTE Band 14**

LTE Band 14 / 5MHz / QPSK									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1584	-62.22	-42.15	-20.07	-70.62	-67.59	0.90	8.42	H
	2376	-58.85	-13	-45.85	-72.36	-66.10	1.12	10.53	H
	3168	-57.46	-13	-44.46	-72.94	-65.71	1.30	11.70	H
	3960	-51.43	-13	-38.43	-69.76	-60.58	1.48	12.78	H
									H
									H
	1584	-63.39	-42.15	-21.24	-71.32	-68.76	0.90	8.42	V
	2376	-59.18	-13	-46.18	-72.50	-66.43	1.12	10.53	V
	3168	-57.05	-13	-44.05	-72.98	-65.30	1.30	11.70	V
	3960	-51.28	-13	-38.28	-69.58	-60.43	1.48	12.78	V
								V	
								V	
Middle	1592	-62.35	-42.15	-20.20	-70.69	-67.75	0.90	8.45	H
	2384	-58.94	-13	-45.94	-72.40	-66.20	1.12	10.54	H
	3184	-57.52	-13	-44.52	-73.03	-65.81	1.30	11.74	H
	3976	-52.39	-13	-39.39	-70.77	-61.54	1.48	12.79	H
									H
									H
	1592	-63.49	-42.15	-21.34	-71.42	-68.89	0.90	8.45	V
	2384	-58.95	-13	-45.95	-72.28	-66.21	1.12	10.54	V
	3184	-57.09	-13	-44.09	-73.08	-65.38	1.30	11.74	V
	3976	-53.16	-13	-40.16	-71.49	-62.31	1.48	12.79	V
								V	
								V	





LTE Band 14 / 5MHz / QPSK									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	1592	-61.97	-42.15	-19.82	-70.31	-67.37	0.90	8.45	H
	2392	-59.11	-13	-46.11	-72.53	-66.38	1.13	10.55	H
	3192	-57.39	-13	-44.39	-72.92	-65.70	1.30	11.76	H
	3992	-51.55	-13	-38.55	-69.98	-60.71	1.49	12.80	H
									H
									H
	1592	-62.22	-42.15	-20.07	-70.15	-67.62	0.90	8.45	V
	2392	-59.03	-13	-46.03	-72.36	-66.30	1.13	10.55	V
	3192	-56.86	-13	-43.86	-72.88	-65.17	1.30	11.76	V
	3992	-52.51	-13	-39.51	-70.85	-61.67	1.49	12.80	V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 14 / 10MHz / QPSK									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1576	-61.39	-42.15	-19.24	-69.85	-66.73	0.90	8.39	H
	2368	-54.82	-13	-41.82	-68.38	-62.06	1.12	10.52	H
	3152	-57.34	-13	-44.34	-72.8	-65.56	1.30	11.66	H
	3944	-48.57	-13	-35.57	-66.85	-57.71	1.48	12.77	H
									H
									H
	1576	-61.77	-42.15	-19.62	-69.7	-67.11	0.90	8.39	V
	2368	-59.21	-13	-46.21	-72.54	-66.45	1.12	10.52	V
	3152	-56.75	-13	-43.75	-72.63	-64.97	1.30	11.66	V
	3944	-50.36	-13	-37.36	-68.64	-59.50	1.48	12.77	V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.